AMENDMENT

In the Claims:

Please amend the claims according to the following listing of claims and substitute it for all prior versions and listings of claims in the application.

1.   (Original)   A   data   compression/decompression   device,   suitable   for compressing/decompressing a data transmitted between a data generation device and a data storage device, comprising:

an input buffer, for buffering and storing said data for input;

an output buffer, for buffering and storing said data for output;

a   data   compressor/decompressor,   coupled   to   said   output   buffer,   for compressing/decompressing said data for input and storing said data for output in said output buffer; and

a controller, coupled to said input buffer, said output buffer and said data compressor/decompressor, for controlling data transmission with said data generation device and said data storage device, controlling compressing/decompressing said data, and managing an address mapping table which is the cross reference between an access address transmitted from said data generation device and a physical address of storing the data in said data storage device.

2. (Currently amended) The device of claim 1, wherein said controller includes:

a data generation control unit, for controlling data transmission with said data generation device;

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a data storage control unit, for controlling data transmission with said data storage device;

a data [extracter] extractor, for obtaining said data from said input buffer, extracting a

compressing/decompressing portion of said data , and sending said compressing/decompressing

portion of said data to said data compressor/decompressor; and

a main control unit, for coordinating and controlling said data generation control unit,

said data storage control unit, and said data [extracter] extractor, and for managing said address

mapping table.

3. (Original) The device of claim 1, wherein said data generation device is at least one of

a host, a laptop computer, a microprocessor, an interface card and a router.

4. (Original) The device of claim 1, wherein said data storage device is at least one of a

hard disk drive, a floppy disk drive, a CD-RW drive, a magnetic-optical device, a digital video

recorder and a flash memory card.

5. (Original) A system applying a data compression/decompression device, comprising:

a data storage device, having a data transmission interface;

a data generation device, accessing a data in said data storage device via said data

transmission interface; and

a data compression/decompression device, coupled to said data storage device and said

data generation device via said data transmission interface, for compressing/decompressing said

data transmitted between said data storage device and said data generation device and managing

an address mapping table which is the cross reference between an access address transmitted

from said data generation and a physical address of storing said data in said data storage device.

6. (Original) The device of claim 5, wherein said data compression/decompression device

includes:

an input buffer, for buffering and storing said data for input;

an output buffer, for buffering and storing said data for output;

a data compressor/decompressor, coupled to said output buffer, for

compressing/decompressing said data for input and storing said data for output in said output

buffer; and

a controller, coupled to said input buffer, said output buffer, and said data

compressor/decompressor, for controlling data transmission with said data generation device and

said data storage device, controlling compressing/decompressing said data, and managing said

address mapping table.

7. (Currently Amended) The system of claim 6, wherein said controller includes:

a data generation control unit, for controlling data transmission with said data generation

device;

a data storage control unit, for controlling data transmission with said data storage device;

a data [extractor] extractor, for obtaining said data from said input buffer, extracting a

compressing/decompressing portion of said data , and sending said compressing/decompressing

portion of said data to said data compressor/decompressor; and

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a main control unit, for coordinating and controlling said data generation control unit,

said data storage control unit, and said data [extracter] extractor, and for managing said address

mapping table.

8. (Original) The system of claim 5, wherein said data generation device is at least one of

a host, a laptop computer, a microprocessor, an interface card and a router.

9. (Original) The system of claim 5, wherein said data storage device is at least one of a

hard disk drive, a floppy disk drive, a CD-RW drive, a magnetic-optical device, a digital video

recorder and a flash memory card.

10. (Original) The system of claim 5, wherein said data transmission interface is one of an

IDE interface, a 1394 interface, a SCSI interface, a serial ATA interface, a serial attached SCSI

interface, a PCMCIA interface and a USB interface.